

WHAT IS CLAIMED IS:

1. A solar power generation system comprising at least a solar cell and a cooling mechanism, said cooling mechanism having a cooling means for cooling
5 said solar cell and a memory and operation means for memorizing or operating an optimum cooling and driving state of said cooling means with respect to an output of said solar cell, wherein said cooling means is driven based on an output of said memory and operation
10 means.

2. The solar power generation system according to claim 1, wherein the output of the solar cell is an output power or an output current from the solar cell.

3. The solar power generation system according to
15 claim 1, wherein the cooling means is a cooling means in which a fluid coolant is used.

4. The solar power generation system according to claim 1, wherein the memory and operation means has a clocking function and memorizes a standard temperature of an atmosphere
20 where the solar cell is installed for every time point, where the cooling means is driven in accordance with said standard temperature.

5. The solar power generation system according to claim 1, wherein said solar power generation system has a
25 power conversion means for the output of the solar cell and

the memory and operation means is provided such that the memory and operation means is included in said power conversion means.

6. The solar power generation system according to
5 claim 1, wherein said solar power generation system has a power conversion means for the output of the solar cell and an output detection means for the output of the solar cell, where said output detection means is provided such that said output detection means is included in said power conversion
10 means.

7. The solar power generation system according to claim 1, wherein said solar power generation system has a mechanism for tracking the sun.